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## Indolinone Combinational Libraries and Related Products and Methods for the Treatment of Disease

## Abstract

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The present invention relates to organic molecules modulating, regulating and/or inhibiting capable of protein kinase signal transduction. Such compounds are of diseases related treatment for the useful unregulated protein kinase signal transduction, including cancer, diseases such as proliferative cell atherosclerosis, arthritis and restenosis and metabolic diseases such as diabetes. The present invention features indolinone compounds that potently inhibit protein kinases and related products and methods. Inhibitors specific to the FLK protein kinase can be obtained by adding chemical 3-[(indole-3-yl)methylene]-2substituents to the indolinone, in particular at the 1' position of the indole Indolinone compounds that specifically inhibit the FLK and platelet derived growth factor protein kinases can harbor a tetrahydroindole or cyclopentano-b-pyrrol moiety. Indolinone compounds that are modified with substituents, particularly at the 5 position of the oxindole ring, can effectively activate protein kinases. This invention also features novel hydrosoluble indolinone compounds that are tyrosine kinase inhibitors and related products and methods.